

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/566, 886
Source: IFWP
Date Processed by STIC: 2-10-06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 02/10/2006

PATENT APPLICATION: US/10/566,886

TIME: 09:20:25

Input Set : A:\14028.0295U2.txt

Output Set: N:\CRF4\02102006\J566886.raw

```

4 <110> APPLICANT: NEVILLE, David
5     WOO, Jung-Hee
6     LIU, Yuan-Yi
8 <120> TITLE OF INVENTION: METHODS FOR EXPRESSION AND PURIFICATION
9     OF IMMUNOTOXINS
11 <130> FILE REFERENCE: 14028.0295U2
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/566,886
C--> 14 <141> CURRENT FILING DATE: 2006-02-01
16 <150> PRIOR APPLICATION NUMBER: PCT/US04/24786
17 <151> PRIOR FILING DATE: 2004-08-02
19 <150> PRIOR APPLICATION NUMBER: 60/491,923
20 <151> PRIOR FILING DATE: 2003-08-01
22 <160> NUMBER OF SEQ ID NOS: 35
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 22
28 <212> TYPE: PRT
29 <213> ORGANISM: H. sapiens
31 <400> SEQUENCE: 1
32 Asp Val Thr Leu His Ala Asp Ala Ile His Arg Gly Gly Gly Gln Ile
33 1           5           10           15
34 Ile Pro Thr Ala Arg Arg
35           20
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 22
39 <212> TYPE: PRT
40 <213> ORGANISM: M. musculus
42 <400> SEQUENCE: 2
43 Asp Val Thr Leu His Ala Asp Ala Ile His Arg Gly Gly Gly Gln Ile
44 1           5           10           15
45 Ile Pro Thr Ala Arg Arg
46           20
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 22
50 <212> TYPE: PRT
51 <213> ORGANISM: R. norvegicus
53 <400> SEQUENCE: 3
54 Asp Val Thr Leu His Ala Asp Ala Ile His Arg Gly Gly Gly Gln Ile
55 1           5           10           15
56 Ile Pro Thr Ala Arg Arg
57           20
59 <210> SEQ ID NO: 4
60 <211> LENGTH: 22

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61 <212> TYPE: PRT
63 <213> ORGANISM: C. griseus
65 <400> SEQUENCE: 4
66 Asp Val Thr Leu His Ala Asp Ala Ile His Arg Gly Gly Gly Gln Ile
67 1 5 10 15
68 Ile Pro Thr Ala Arg Arg
69 20
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 22
73 <212> TYPE: PRT
74 <213> ORGANISM: D. melanogaster
76 <400> SEQUENCE: 5
77 Asp Val Thr Leu His Ala Asp Ala Ile His Arg Gly Gly Gly Gln Ile
78 1 5 10 15
79 Ile Pro Thr Thr Arg Arg
80 20
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 22
84 <212> TYPE: PRT
85 <213> ORGANISM: C. elegans
87 <400> SEQUENCE: 6
88 Asp Val Thr Leu His Ala Asp Ala Ile His Arg Gly Gly Gly Gln Ile
89 1 5 10 15
90 Ile Pro Thr Ala Arg Arg
91 20
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 22
95 <212> TYPE: PRT
96 <213> ORGANISM: S. pombe
98 <400> SEQUENCE: 7
99 Asp Val Val Leu His Ala Asp Ala Ile His Arg Gly Gly Gly Gln Ile
100 1 5 10 15
101 Ile Pro Thr Ala Arg Arg
102 20
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 22
106 <212> TYPE: PRT
107 <213> ORGANISM: P. pastoris
109 <400> SEQUENCE: 8
110 Asp Val Thr Leu His Ala Asp Ala Ile His Arg Gly Gly Gly Gln Val
111 1 5 10 15
112 Ile Pro Thr Met Lys Arg
113 20
115 <210> SEQ ID NO: 9
116 <211> LENGTH: 22
117 <212> TYPE: PRT
118 <213> ORGANISM: S. cerevisiae
120 <400> SEQUENCE: 9
121 Asp Val Thr Leu His Ala Asp Ala Ile His Arg Gly Gly Gly Gln Ile

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```

122 1          5          10          15
123 Ile Pro Thr Met Arg Arg
124          20
126 <210> SEQ ID NO: 10
127 <211> LENGTH: 66
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
133     synthetic construct
135 <400> SEQUENCE: 10
136 gatgttacct tgcacgccga tgctatccac cgccgcggag gacaagtcac tccaacctatg      60
137 aagaga                                         66
139 <210> SEQ ID NO: 11
140 <211> LENGTH: 223
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
146     synthetic construct
148 <400> SEQUENCE: 11
149 actttgaagt tcttaatttt gttcctcgta gaaagaacgc atagataatt caaaatggca      60
150 aaatgggtat gtgttttttt atagtctatg tgccgaacaa ctaccgtttt aacttcactg      120
151 tcgatcagat gcgatccctt atggacaagg tgtccaacgt ccgtaacatg tcggttattg      180
152 cccacgttga tcacggtaag tccactttaa ctgactccct ggt                          223
154 <210> SEQ ID NO: 12
155 <211> LENGTH: 250
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
161     synthetic construct
163 <400> SEQUENCE: 12
164 actttgaagt tcttaatttt gttcctcgta gaaagaacgc atagataatt caaaatgggt      60
165 atgtgttttt ttatagttca tgtgccgaac aactaccgtt tcaagatggg agccagccac      120
166 taacatctcc tctagttaac ttcactgtcg atcagatgcg atcccttatg gacaaggtga      180
167 ccaacgtccg taacatgtcg gttattgccc acgttgatca cggttaagtcc actttaactg      240
168 actccctggt                                         250
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 2601
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
177     synthetic construct
179 <400> SEQUENCE: 13
180 atggttaact tcaactgtcg tcaagatgca tcccttatgg acaaggtgac caacgtccgt      60
181 aacatgtcgg ttattgcca cggtgatcac ggtaagtcca ctttaactga ctccctgggt      120
182 caacgtgccg gtattatttc tgctgccaag gctggtgagg cccgtttcac tgatactaga      180

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```

183 aaggacgagc aagagagagg tatcaccatc aagtctaccg ccatttcttt gtactctgag      240
184 atgggtgacg acgatgtcaa ggagatcaag cagaagactg aaggtaacag ttctcttctc      300
185 aacttaattg actccccagg tcacgttgac ttctcttctg aggtcactgc tgctctgcgt      360
186 gttactgacg gtgcttttggc cgtcgttgac tgtgttgaag gtgtctgtgt tcaaactgag      420
187 accgtttttgc gtcaagcttt gggtgaaaga atcaagccag ttgttgatcat taacaaggtc      480
188 gaccgtgctc ttttgagatt gcaagttacc aaggaggacc tgtaccagtc tttcgctaga      540
189 accgtcgagt ccgtaaactg cgttatcgct acttacactg acaagaccat tggtgacaac      600
190 caagtctacc cagaacaggg tacgctcgct ttcggttcag gtctgcacgg atgggctttc      660
191 accgttagac agttcgccac tagatactcc aagaagttcg gtgttgacag aatcaagatg      720
192 atggagcgct tgtggggaga ctcttacttc aacccaaaga ccaagaaatg gaccaacaag      780
193 gacaaggacg ccgctggaaa gcctttggag cgtgccttca acatgttcgt tttggacctt      840
194 atcttccgct tgtttgctgc catcatgaac ttcaagaagg atgaaattcc agttctgttg      900
195 gagaaattgg agatcaacct gaagcgtgag gagaaggagt tggagggtaa ggctcttttg      960
196 aaggttgtca tgagaaagtt cttgccagct gccgacgctt tgttgagatg gattgttctt     1020
197 cacctgccat ctccagtcac cgtcaagct tacagagccg agactttgta cgaagggtcca     1080
198 tctgatgacc aattctgcat tgggtatcaga gagtgtgacc ctaaggctga gctgatggtt     1140
199 tacatttcca agatgggtgc aacctccgac aaaggtagat tctacgcctt cggctcgtgtt     1200
200 ttctccggta ctgttaagtc cggtcaaaag gtcagaatcc aaggctcctaa ctacgttcca     1260
201 ggtaagaagg aggacttggt catcaaggct gttcaaagaa ctgttttgat gatgggaaga     1320
202 accgtcgagc ctattgacga tgtcccagct ggtaacattc tgggtattgt gggatcgcag     1380
203 cagttcttgc tgaagtctgg tactcttact accaaccgaag ccgctcaca catgaagggtg     1440
204 atgaaattct ctgtctctcc agttgtgcaa gttgcccgtg aggtcaagaa cgtaatgat     1500
205 ctgcccaggt tgggtgagg tctgaagcgt ttgtccaagt ctgacctatg tgttttaacc     1560
206 tacatctccg agtctggtga gcacattgtt gctggtagct gtgagctgca cttggaaatc     1620
207 tgtttgcaag atctgcaaga cgaccacgct ggtgtccctc tgaagatttc tctccagtt     1680
208 gttacctacc gtgagactgt cactaacgaa tcttccatga ctgccctgtc caagtctcag     1740
209 aacaagcata acagaattta cctgaaggct caaccaattg acgaggaatt gtctttggct     1800
210 atcgaagaag gtaaggttca cccaagagac gactttaaag ccagagccag aatcatggct     1860
211 gatgaatacg gttgggacgt cactgatgcc agaaagatct ggtgtttcgg tccagacggt     1920
212 actggtgcca acttagttgt tgaccagtct aaggctgtcc aatacttgca cgagatcaag     1980
213 gactctgttg ttgccggttt ccaattggct accaaggaag gtccaatttt gggagaaaac     2040
214 atgagatccg tcagagtcaa catcttggat gttaccctgc acgccgatgc tatccacaga     2100
215 ggtggaggac aagtcattcc aacctgaag agagttacct acgccgcctt cctgttggct     2160
216 gagccagcta tccaggagcc tatcttcttg gtggagatcc aatgtccaga gaatgccatt     2220
217 ggtggtatct actctgtttt gaacaagaag agagggtcaag ttatctctga ggaacaaaga     2280
218 ccaggtagcc cattgttcac tgtcaaagct tacttgccag ttaacgagtc attcggtttc     2340
219 accggtgaac tgagacaagc tacgctgggt caagctttcc cacagatggt gttcgaccac     2400
220 tgggccaaca tgaatggtaa cccattggac ccagcctcca aggtcggtga gattgttctt     2460
221 gctgccagaa agagacaggg tatgaaggag aacgttcctg gttatgaaga gtactacgac     2520
222 aagttgtaag cttaatgttt cattaaacta tttgtgtcgt tcgtatgtct atttacgtac     2580
223 ttaattcagt gtattgttgt t                                     2601
225 <210> SEQ ID NO: 14
226 <211> LENGTH: 9
227 <212> TYPE: PRT
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
232     synthetic construct
234 <400> SEQUENCE: 14

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235 Ala His Val Asp His Gly Lys Ser Thr
236 1 5
238 <210> SEQ ID NO: 15
239 <211> LENGTH: 13
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
245 synthetic construct
247 <400> SEQUENCE: 15
248 Asp Glu Gln Glu Arg Gly Ile Thr Ile Lys Ser Thr Ala
249 1 5 10
251 <210> SEQ ID NO: 16
252 <211> LENGTH: 896
253 <212> TYPE: PRT
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
258 synthetic construct
260 <400> SEQUENCE: 16
261 Ala Gly Ala Asp Asp Val Val Asp Ser Ser Lys Ser Phe Val Met Glu
262 1 5 10 15
263 Asn Phe Ala Ser Tyr His Gly Thr Lys Pro Gly Tyr Val Asp Ser Ile
264 20 25 30
265 Gln Lys Gly Ile Gln Lys Pro Lys Ser Gly Thr Gln Gly Asn Tyr Asp
266 35 40 45
267 Asp Asp Trp Lys Gly Phe Tyr Ser Thr Asp Asn Lys Tyr Asp Ala Ala
268 50 55 60
269 Gly Tyr Ser Val Asp Asn Glu Asn Pro Leu Ser Gly Lys Ala Gly Gly
270 65 70 75 80
271 Val Val Lys Val Thr Tyr Pro Gly Leu Thr Lys Val Leu Ala Leu Lys
272 85 90 95
273 Val Asp Asn Ala Glu Thr Ile Lys Lys Glu Leu Gly Leu Ser Leu Thr
274 100 105 110
275 Glu Pro Leu Met Glu Gln Val Gly Thr Glu Glu Phe Ile Lys Arg Phe
276 115 120 125
277 Gly Asp Gly Ala Ser Arg Val Val Leu Ser Leu Pro Phe Ala Glu Gly
278 130 135 140
279 Ser Ser Ser Val Glu Tyr Ile Asn Asn Trp Glu Gln Ala Lys Ala Leu
280 145 150 155 160
281 Ser Val Glu Leu Glu Ile Asn Phe Glu Thr Arg Gly Lys Arg Gly Gln
282 165 170 175
283 Asp Ala Met Tyr Glu Tyr Met Ala Gln Ala Cys Ala Gly Asn Arg Val
284 180 185 190
287 Arg Arg Ser Val Gly Ser Ser Leu Ser Cys Ile Asn Leu Asp Trp Asp
288 195 200 205
289 Val Ile Arg Asp Lys Thr Lys Thr Lys Ile Glu Ser Leu Lys Glu His
290 210 215 220
291 Gly Pro Ile Lys Asn Lys Met Ser Glu Ser Pro Ala Lys Thr Val Ser

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/566,886

DATE: 02/10/2006
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Input Set : A:\14028.0295U2.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:19; Xaa Pos. 2,3

Seq#:35; N Pos. 7,15

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/566,886

DATE: 02/10/2006

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Input Set : A:\14028.0295U2.txt

Output Set: N:\CRF4\02102006\J566886.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:626 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:35
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0